"APPROVED FOR RELEASE: 03/13/2001

THE REPORT OF STREET

CIA-RDP86-00513R000930220004-1

S/263/62/0XI/003/011/015 I004/I204

AUTHOR:

Litvinov, A. M.

TITLE:

Pulse temperature regulators

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 4, 1962, 43, abstract

32.3.270. "Tr. Konserentsii po avtomat. kontrolu i metodam elektr. izmereniy, 1959".

Novosibirsk, Sib. branch of the AS USSR, 1961, 315-322

TEXT: Some design formulas for pulse temperature regulators are given for the case when the measuring circuit is chosen as a differential one. To obtain a pulse load the following were chosen: 1) circuits with a direct, short-time connection of the measuring network to a direct current source through contacts, and 2) circuits employing the pulse charging current of a capacitor connected to a direct current source. As an unbalance indicator electromagnetic elements may be employed, whose identical windings are connected to the two arms of the differential circuit and create oppositely directed magnetic fluxes. In the simplest regulator circuits, the windings of the polarized relays (of the type P Π (RP) and P Π C (RPS)) may be used. The design procedure for optimal parameters is given for the circuit (1) with a differential input containing amplifying and matching stages, in cases when the duration of the pulse greatly exceeds the time constant of the transients (the problem is reduced to the design of a circuit for d.c. operation). Practical schemes of pulse regulators with a differential measuring

Card 1/2

Pulse temperature regulators...

S/263/62/000/003/011/015 1004/1204

circuit are described. In the first one, a self-opening thermal relay was used as a generator of pulses, employing a thermo-bimetal with magnetic acceleration. The heating-up time of the bimetal should be reduced to a minimum by increasing its cooling down time. This enables reduction of the supply voltage's influence upon the generator's frequency. In circuits of type (2), which are preferable in case of higher d.c. voltages, an ordinary relaxation generator consisting of an RC-network and a cold-cathode thyratron may be employed.

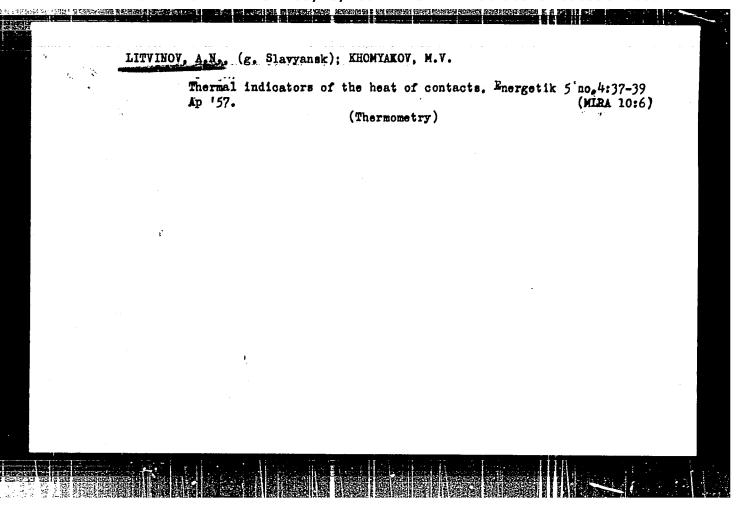
[Abstracter's note: Complete translation.]

Card 2/2

BLOKH, Grigoriy Semenovich; LITVINOV, Aleksandr Nikolayevich

[Asbestos cement materials and elements and their oper-

ational qualities] Asbestotsementnye materialy i konstruktsii i ikh ekspluatatsionnye kachestva. Moskva, Stroiizdat, 1964. 146 p. (MIRA 18:3)



HLOKH, G.S., kand.tekhm.nauk; EL'KINSON, R.Z., kand.tekhm.nauk;
LITVINOY, A.N., inzh.

The service of corrugated asbestos-cement sheets in the Lining of the draw-off towers of cooling towers. Trudy NIIIsbestteementa no.13:79-87 '62.

(Asbestos cement) (Cooling towers)

HLOKH, G.S., kand.tekhn.nauk; LITVINOV, A.N., inzh. The durability of "VO" corrugated asbestos-cement sheets of ordinary shape in roofs of public buildings. Trudy NIIAsbesttsementa no.13:3-28 *62. (MIRA 15:12)

no.13:3-28 162.

(Roofing, Asbestos-cement)

CIA-RDP86-00513R000930220004-1" APPROVED FOR RELEASE: 03/13/2001

Equivalent structural representation of digital automatic control systems. Izv. AN SSER. Otd. tekh. nauk. Tekh. kib. no.1:190-198

Ja-F *63. (MIRA 16:7)

(Automatic control) (Electric computers)

FOR STATE WHEN SHELL WE SEE SHELL SHELL SHELL WE SHELL WE WERE SHELL SHE

LITVINOV., A. P. : ZIL'BERDRUT, V.D.

Alloys

Replacement of stannous bronze with antifrictional alloys. A. P. Litvinov. V. D. Zil'berdrut, Vest. mash. 31, No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September, 1953x Unclassified.

LITVINOV, A.P.

Taking lagging into consideration in the synthesis of an automatic system with a digital control computer. Izv.vys.ucheb.zav.; prib. 6 no.3:26-35 163. (MIRA 16:9)

l. Leningradskaya krasnoznamennaya voyenno-vozdushnaya imzhenernaya akademiya imeni A.F. Mozhayskogo.

FEDOROV, Stepan Mikhaylovich; LITVINOV, Anatoliy Pavlovich; STRAKHOV, V.P., red.

TO A TO A STATE OF THE PARTY OF

[Automatic systems with digital control computers; theory and design] Avtomaticheskie sistemy a taifrovymi upravliaiushchimi mashinami; teoriia i proektirovanie. Moskva, Energiia, 1965. 222 p. (MIRA 18:8)

BDS/EWT(d)/FCC(w) APGC/ASD/ESD-3 Pg-4/Pk-4/Po-4/ L 13111-63 IJP(C)/GG S/11.6/63/006/002/005/01.0 Pq-4 AUTHOR: Litvinov, A. P. TITLE: Synthesis of an automatic system employing a digital computer PERIODICAL: Izv. Vuz., Priborostroyeniye, v. VI, no. 2, 1963, 37-46 TEXT: For an automatic system with a transfer function of the continuous part W.(p) = K/p, in which a digital computer performs the function of a comparator, it is shown that in analyzing the accuracy of the system under steady-state conditions the quantization with respect to time, introduced by the computer, can be neglected. It is established that the output of the system is completely determined by its values at points t = nT on the time axis. An expression is obtained relating the oscillation index and the overshoot for unit stepsise action. Finally, the author investigates the dependence between the maximum permissible readout period for the computer, the stability margin of the closed system (estimated from the overshoot or the oscillation index), and the steady-state error in reproducing a linearly variable input signal. There are seven digures Card 1/2/

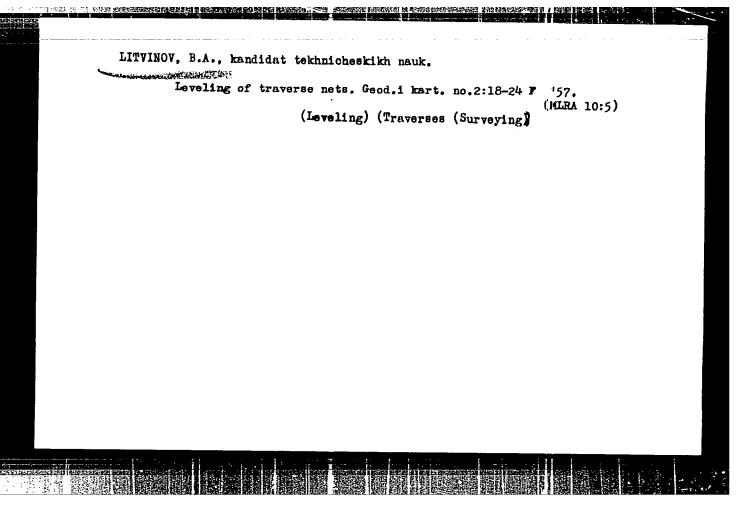
SUDAKOV, S.O.; ALEKSAIDROV, T.F.; BACROV, M.A.; BULANOV, A.I.; KAMENSKAYA,
M.V.; KUZ-MME, B.S.; LITTINOV-R.A.; SINYAG-MA, M.I.; TIMOFFITV, A.A.;
RITIN, I.I.; pri uchastii Sinyaginoy, V.I.; BULANOV, A.I., red.;
RICMANOVA, V.V. tekhn.red.

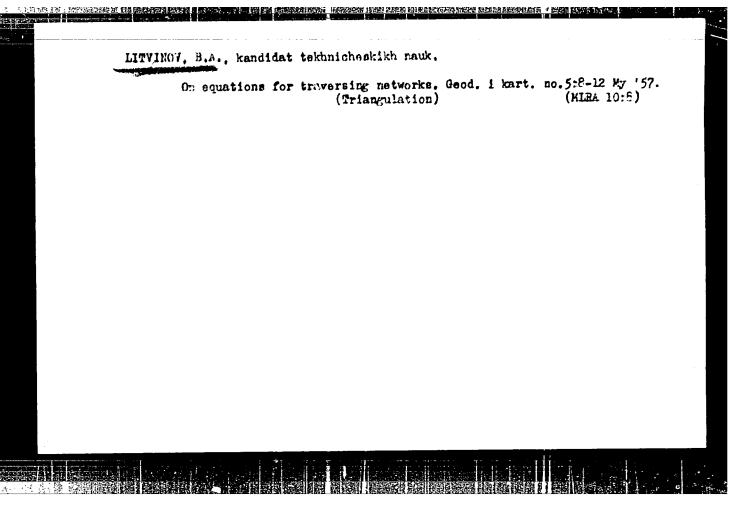
[Instructions for first, second, third and fourth class leveling]
Instructiate po nivelirovantiu I, II, III i IV klassov. Izd. 2-ce,
Instruktatia po nivelirovantiu I, III, III i IV klassov. [MRA]
ispr. i dop. Moskva, Izd-vo geodez. lit-ry, 1957. 106 p.

(MIRA 11:4)

1. Russis (1923- U.S.S.R.) Glavnoye upravleniye geodezii i
kartografii.

(Leveling)





SUDAKOV, S.C.; ALEKSANIROV, T.P.; BAGROV, M.A.; BULANOV, A.I.; KAMENSKAYA, M.V.; KUZ'HIN, B.S.; LITVINOV, B.A.; SINYAGINA, M.I.; TIMOFETEV, A.A.; ENTIN, I.I.. Prinimala uchastiye SINYAGINA, V.I.. ROMANOVA, V.V., tekhn.red.

[Instructions for first-, second-, third-, and fourth-order leveling]
Instructions for first-, second-, third-, and fourth-order leveling]

LEONTOVICH, Vladimir Origor'yevich, prof.; LITVINOV, B.A., kand.tekhn.nauk, red.; VASIL'YEVA, V.I., red.ixd-va; ROMANOVA, V.V., tekhn.red.

[Leveling in engineering work] Mivelirovanie pri inzhenernykh rabotakh. Moskva, Izd-vo geodez. lit-ry, 1959. 383 p.

(MIRA 12:7)

CIA-RDP86-00513R000930220004-1 "APPROVED FOR RELEASE: 03/13/2001

3(4) AUTHOR: Litvinov, B. A., Candidate of Technical Sciences, Docent On the Investigation of Short-period Errors in the Diameters TITLE: of Angle Measurement Circles (Ob issledovanii korotkoperiodicheskikh oshibok diametrov uglomernykh krugov) Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"-PERIODICAL: yemka, 1959, Nr 4, pp 3 - 15 (USSR) The instructions laid down for the triangulation of the first, ABSTRACT: 2nd, 3rd, and fourth orders of 1955 provide that in all instruments used for the measurement of angles in the points

of the first and second orders the total and short-period errors in the diameters of angle measurement be investigated. The investigation of short-period errors ordered in annex 16 of this instruction is carried out and displayed here so that the values obtained in this way, closely approach the admissible value. Therefore the methods recommended in this instruction do not guarantee the necessary accuracy. The author presents a method for an increase of accuracy in the determination of short-period errors. For this purpose additional measurements are made. Apart from the measurement of intervals

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CIA-RDP86-00513R000930220004-1" **APPROVED FOR RELEASE: 03/13/2001**

On the Investigation of Short-period Errors in the Diameters of Angle Measurement Circles

507/154-59-4-1/17

between two adjacent lines, intervals of a double, threefold, fourfold etc spacing are measured with the same micrometer. For the sake of greater efficiency the evaluation of these measurements is carried out according to the method of the least squares; in which case for each measured interval an error equation of the (11) type formula, or (11') type formula is established. Formula (11') only changes with a change of the number of intervals and thus the solution of the problem holds for all instruments of the same type. The equation is solved and coefficients are obtained which are used for the determination of δ corrections. The author has made these calculations and has compiled tables for these coefficients which are mentioned in the annex. The process of calculation and the use of these tables is pointed out. This method may also be used for the investigation of errors of any circular or linear scales. There are 8 tables.

ASSOCIATION: Voyenno-inzhenernaya akademiya im. V. V. Kuybysheva (Military Engineering Academy imeni V. V. Kuybyshev)

SUBMITTED: Card 2/2

March 22, 1958

APPROVED FOR RELEASE: 03/13/2001

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AUTHOR:

Litvinov, B. A., Candidate of Technical

\$/006/60/000/03/001/019

B007/B1.23

TITLE:

On the Development of Federal Geodetic Nets of the Second and

Third Order by Means of the Traverse Method

PERIODICAL: Geodeziya i kartografiya, 1960, Nr 3, pp 3 - 10 (UBSR)

TEXT: In connection with the use of optical range finders it is advisable to apply in addition to the triangulation method also the traverse method for the development of geodetic nets. Calculations by S. G. Sudakov (Ref. 1, footnote on p 3) and I. I. Entin (Ref 2, footnote on p 3) show that the same accuracy is achieved by either method, whereas the traverse method is more economical in some areas. There it proves to be more suitable to build up a traverse net consisting of quadrangles rather than triangles. The weakness of this method lies in the determination of the bearings. Calculations by I. V. Zubritskiy (Ref 3, footnote on p 3), A. I. Durnev and P. S. Zakatov (Ref 4, footnote on p 4), and K. L. Provorov (Ref 5, footnote on p 4), however, show that the resulting inaccuracies are negligible. Preliminary calculations showed that it is most suitable to build up polygon nets of the second order in the form of traverse lines 40 km apart from each other that are nearly parallel to the lines of the traverse net of the first order. Series of quadrangular second order

Card 1/3

On the Development of Federal Geodetic Nets of the Second and Third Order by Means of the Traverse Method

Card 2/3

S/006/60/000/03/001/019 B007/B123

polygons are thus formed within the traverse net of the first order (Fig 1). The second order polygons are then filled with traverses of the third order. Based on the experience gained by using optical range finders of the type SVV-1 it is suitable to assume the length of the second order traverse to be 10 km. (L. M. Avdeyev, V. A. Velichko, and K. A. Laping, Ref 6, footnote on p 5). For testing such a procedure a traverse net of the second order was built up within a first order polygon in the forest-steppe zone of the USSR (Fig 3). For this purpose maps of greatest scales were used. Based on this project a model was made. The net was adjusted three times in the following way: 1) according to the method of conditional equations with additional unknowns (Ref 7, footnote on p 6, B. A. Litvinov), 2) according to the closure method which is described here in detail, and 3) according to the approximation method usually applied in the adjustment of transit traverses. The results obtained showed that in this case the same degree of accuracy is attained as by using a triangulation net of the second order, and that this scheme for building up a net of the third order guarantees a sufficiently high precision. It is pointed out that in some cases it is more advisable to build up the traverse nets of the second order in the form of triangles or even pentagons. The data of tables 1 and 2 show

On the Development of Federal Geodetic Nets of the Second and Third Order by Means of the Traverse Method

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S/006/60/000/03/001/019 B007/B123

that the results obtained by adjustment according to the method of least squares and to the closure method are practically equally precise. The steps necessary for adjustment according to the closure method are mentioned. This method is inaccurate because, after obtaining the coordinates at junctions, the single traverses are not adjusted, but only their orientation and scale are changed. As may be seen from tables 1 and 2, this leads, however, to no noticeable distortions. The approximation method, however, leads to noticeable distortions as may be seen from these tables. For the closure method the adjustment computations were programmed on an electronic computer of the type "Strela". Thus it is possible to adjust a traverse net of the second order within a polygon of the first order of 250 by 250 km. P. A. Gaydayev and B. M. Klenitskiy are mentioned (Ref 10, footnote on p 10), as well as D. S. Shein (Ref 9, footnote on p 8). There are 3 figures, 3 tables, and 10 Soviet references.

Card 3/3

LITVINOV, B.A., kand.tekhn.nauk

Adjustment of polygonometric networks by the method of conditional equations with unknowns. Geod. i kart. no. 11:9-12 H 160.

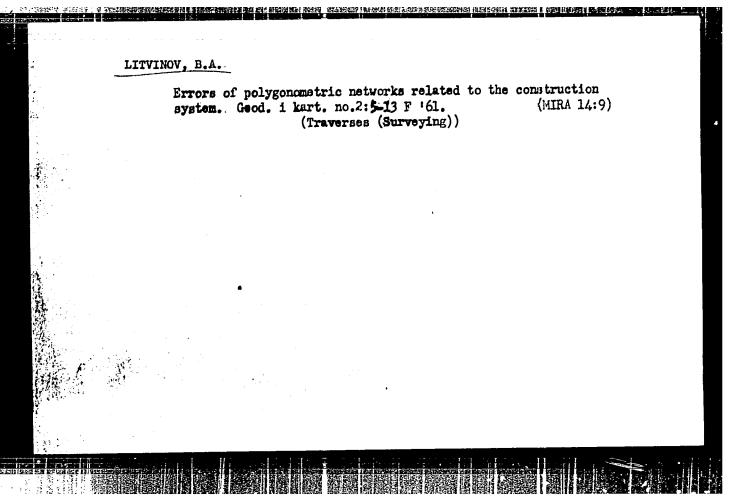
(MINA 13:12)

(Traverses (Surveying))

POLEVOY, Vyacheslav Alekseyevich; LOZINSKAYA, A.M., kand. tekhn. nauk, retsenzent LAPING, K.A., kand. tekhn. nauk, retsenzent LITVINOV, B.A., kand. tekhn. nauk, dotsent, red.; ZUBAKOV, A.G., red.izd-va; VORONOVA, V.V., tekhn. red.

[Fundamentals of the mathematical processing of the results of radiogeodetic measurements] Osnovy matematicheskoi obrabotki rezultatov radiogeodezichskikh izmerenii. Moskva, Izd-vo geodez. lit-ry, 1961. 205 p. (MIRA 14:11)

(Radar in surveying)



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SUDAKOV, S.G.; ALEKSANDROV, T.F.; BULANOV, A.I.; DURNEV, A.I.;
YELISEYEV, S.V.; ZAKATOV, P.S.; IZOTOV, A.A.; KARLOV, G.M.;
KUZ'MIN, B.S.; KUKUSHKIN, A.D.; KOLUPAYEV, A.P.; KCZLCVA, Ye.A.;
LARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV,
IARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV,
A.V.; PELLINEN, L.P.; PETROV, A.I.; SOLOV'YEV, A.I.; TOMILIN, A.F.;
URALOV, S.S.; USPENSKIY, M.S.; FOMIN, M.P.; SHISHKIN, V.N.; SHCHEGLOV,
A.P.; SUDAKOV, S.G., otv. red.; KOMAHKOVA, L.M., red. izd-væ; SUNGUROV,
V.S., tekhn. red.

[Instruction concerning the building-up of a state geodetic network in the U.S.S.R.] Instruktsiia o postroenii gosudarstvennoi geodezicheskoi seti Soiuza SSR; obiazatel'na dlia vsekh vedomstv i uchrezhdenii, proizvodiashchikh gosudarstvennye geodezicheskie seti. Koskva, Izd-vo geodez. lit-ry, 1961. 459 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii. (Geodesy)

TO STATE OF THE BURNESS OF THE STATE OF THE

LITVINOV, Boris Alekseyevich; SUDAKOV, S.G., red.; KHROMCHENKO, F.I., red. 1zd-va; ROMANOVA, V.V., tekhn. red.

[Basic problems in constructing and adjusting traverse nets]
Osnovnye voprosy postroeniia i uravnivaniia poligonometricheskikh setei. Moskva, Geodezizdat, 1962. 227 p. (MIRA 15:12)
(Traverses (Surveying))

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BAGROV, M.A.; BULANOV, A.I.;

KAMENSKAYA, M.V.; KUZ'MIN, B.S.; LITVINOV, B.A.; SINYAGINA,

M.I.; TIMOFEYEV, A.A.; ENTIN, I.I. Printer uchastiye

SINYAGINA, V.I.; KOMAR'KOVA, L.M., red.1zd-va; ROMANOVA,

V.V., tekhn. red.

[Instructions for 1st, 2d, 3d, and 4th-class leveling] Instruktsiia po nivelirovaniiu I, II, III, 1 IV klassov. 4 izd. dop. 1 ispr. Moskva, Gosgeoltekhizdat, 1963. 110 p. (MIRA 16:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodesii i kartografii. (Leveling)

STARODUEOV, Vitaliy Leont'yevich; SUNDAKOV, Yakov Armol'dovich;

LITYINOV, B.A., retsenzent; LEVCHUK, G.P., red.;

KHRÖMCHENKO, F.I., red.izd-wa; RCMANOVA, V.V., tekhn.red.

[Short-base parallactic traverse surveying] Korotkobazisnaia parallakticheskaia poligonometriia. Moskva, Gosgeoltekhiz-dat, 1963. 307 p.

(MIRA 16:8)

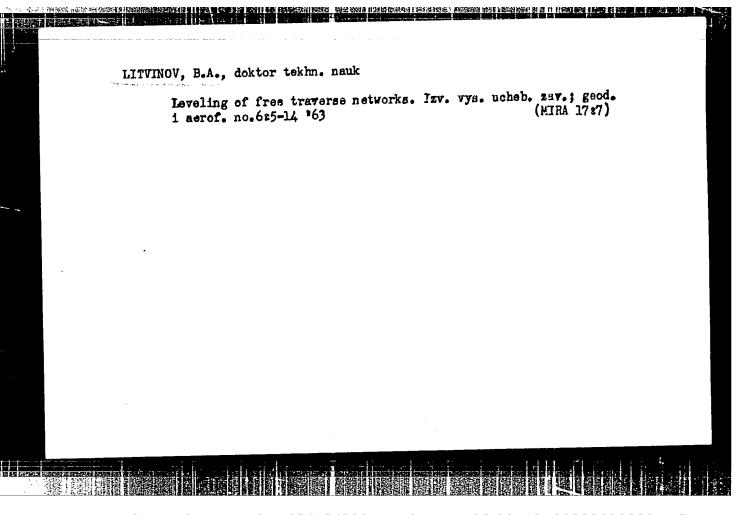
(Traverses (Surveying))

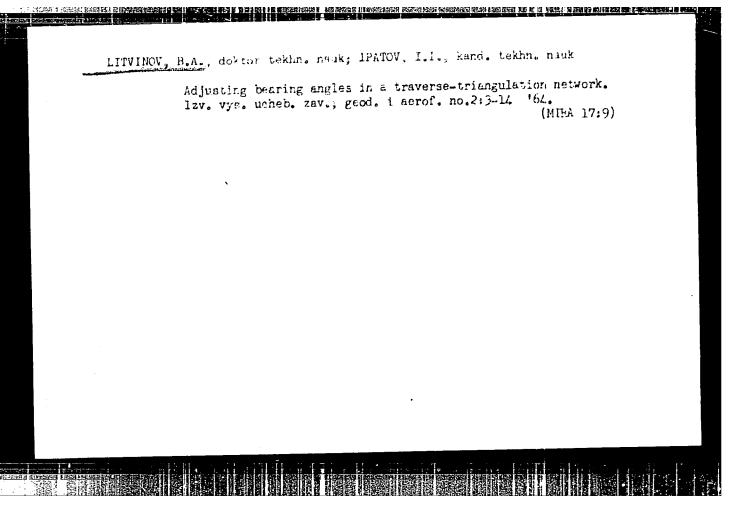
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BURMISTROV, Georgiy Alekseyevich; KEMNITS, Yu.V., retsenzent; LITVINOV.B.A., retsenzent; GORDEYEV, A.V., red.; SHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn. red.

[Principles of the method of least squares] Osnovy sposoba

[Principles of the method of least squares] Osnovy sposoba naimen'shikh kvadratov. Moskva, Gosgeoltekhizdat, 1963.
(MIRA 16:6)
(Least squares)





LITVINOV, B.A., doktor tekhn. nauk

More about the distribution of errors in traverse nets. Izv. vys. ucheb. zav.; geod. i aerof. no.5:119-121 '64. (MIRA 18:5)

FILONENKO, Aleksey Stepanovich, prof. [deceased]; SHCHIPITSYN, Nikolay Grigor'yevich, dots.; LITVINOV, B.A., prof., red.;

[laboratory work in surveying; study of precision surveying instruments] Praktikum po vysahei geodezii; issledovanie vysokotochnykh geodezicheskikh instrumentov. Moskva, Nedra, 1965. 199 p. (MIRA 18.8)

STANSSTRUCTURE FOR THE STANSSTRUCTURE OF THE 5071-66 EWT(m)/EWP(t)/EWP(b)/EWA(h) IJP(c) JD/DM ACC NR: AP5022636 UR/0089/65/019/002/0176/0177 621.039.573 AUTHOR: Kiknedze, G. I.; Gambaryan, V. G.; Litvinov, H. I.; Lyudvigov, R. B.; Razmadze, Z. G.; Fel'dman, L. I.; Chenturiya, V. M. Indium-gallium radiation loop for pool-type reactors TITLE: Atomnaya energiya, v. 19, no. 2, 1965, 176-177 SOURCE: TOPIC TACS: nuclear research reactor, gamma radiation ABSTRACT: An abbreviated description of a special indium-gallium loop used in the IRT-2000 research reactor is given. The reactor is operated by the Institute of Physics of the Gruzinskaya SSR Academy of Sciences. The loop does not require a special biological shielding and can be easily manipulated and adjusted to other pool-type reactors.

The changes in gamma dose rates are obtained by a translational displacement of the loop frame. The radioactive In loop frame by leakage neutrons. A radioactivity equivalent to 16 g of radium can be created at a 1000 kw capacity. Thus, a gamma dose rate of about Card 1/2

0.85 x 10 ⁶ roentgen pervolume. By experiment	r hour can be pr	oduced in	i a 10.5 11 or of IRT-t	ter irradi	lated
authors proved that it	is possible to ose obtained fro	obtain a m 1 x 10	source of to 1.5 x	gamma rad: 10 ⁶ grams	of
radium. The immersion shown in a photo.	of the loop ass	emply in	the reacto	r tank 18	Ŋ
ASSOCIATION: none			· · · · · · · · · · · · · · · · · · ·	• • •	
SUBMITTED: 14Apr65	encl:	. 00	SUB	CODE: NP	
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	병사를 걸으면				

LITVINOV, B.M., kand. biolog. nauk; SAPALEV, G.B.

Controlling the codling moth on the "Ukrainka" State Farm.
Zashch. rast. ot vred. i bol. 7 no.12:8 D '62.
Zashch. rast. ot vred. i bol. 7 no.12:8 B '62.

Agronom po zashchite rasteniy sovkhoza "Ukrainka" Khar'-kovskaya obl. (for Sapalev).

(Godling moth—Extermination)

MCSYAGINA Yelena Nikiforovna, hand modenawk, starshiy nauchnyy sotrudnik; KLEYMENGV, Vladimir Vesiliyerich; VOL'VICH, Anatoliy Origor'yevich mladsh'y nauchnyy sotrudnik; LITYINGV, Boris Nikolayevich, tekhnik Use of electronic analog computers for studying the dynamics of the changes of the level of erythrocytes in a body. Izv. vys. ucheb. zav.; elektromekh. 4 no.4:62-70 61. (MIR. 14:7) 1. Institut pediatrii AMN SSSR (for Mosyagina). 2. Nachal'nik laboratorii vychislitel'nykh mashin Novocherkasskogo nauchnoissledovatel skogo instituta elektrovozos royeniya (for Kleymenov). 3. Novocherkasskiy nauchno-issledovatel'skiy institut elektrovozostroyeniya (for Vol'vich). 4. laboratoriya schetnykh mashin Novocherkasskogo politekhnicheskog instituta (for Litvinov). (MEDICAL ELECTRONICS) ELECTRONIC ANALOG COMPUTERS) (ERTHROCYTES)

LITVINOV, B. M., Cand Bio Sci -- (diss) "Chief blights of apple trees in the forest steppes of the Khar'kov oblast' and the fight against them. Example of the Kolkhoz im I. V. Michurin." Khar'kov, 1957, 19 pp (Khar'kov Agricultural Institute im V. V. Dokuchayev. Chair of Zoology and Entomology), 140 copies (KL, 36-57, 104)

LITUNOU,

USSR/General and Special Zoology. Insects. Injurious Insocts and Ticks. Posts of Fruit and Borry Crops

Abs Jour : Rof Zhur - Biol., No 11, 1958, No 49645

: Litvinov B.M. Author

: Khar kov Agricultural Instituto Inst

: Danago to the Ovary of the Apple Tree by the Title

Wostern May Bootle.

Orig Pub : Zap. Khar'kovsk. s.-kh. in-ta, 1957, 13, (50),

175-177

Abstract: Observations during 1954-1955 in Kharkovskaya Oblast demonstrated that the western May occtle

foods on leaves, flowers and ovarios of fruit troes. On the average, as a result of damage to the ovarios, the apple crop of the summer varieties decreases by 25% and of the fall varieties

by 10.6%. The pluns in the fruit garden are most frequented by the bootles. It is recommended that in gardens situated near the forest, control

: 1/2 Card

USSR / General and Specialized Zoology. Insects.

Pest Insects and Ticks.

.

Abs Jour

: Ref Zhur - Biol., No 17, 1958, No 78312

Author

: Litvinov. B. M.

Inst Title : Kharkov Agricultural Institute : Lesser Apple Worm and Its Control

Orig Pub

: Zap. Kharkovsk. s-kh. in-ta, 1957, 13 (50),

179-181

Abstract

For control of lesser apple-worm in Kharkov Oblast, there were tried dusting of vofotox and DDT (5.5%) and an emulsion of DDT (0.5, 1.0, 1.5 and 2.0%) and thiophos (0.1%). Concentration of emulsions are indicated on the preparation. On each tree there were used 10 1. of emulsion and 0.2 kg of dust. As a result of two-time treating, with a 16-day interval with a 1% mineral-

Card 1/2

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USSR / General and Specialized Zoology. Insects.
Pest Insects and Ticks.

P

Abs Jour

: Ref Zhur - Biol., No 17, 1958, No 78312

oil emulsion of DDT on the summer varieties, and three-time treating (the 3d spray 7 days after the beginning of flying of the 2d generation of the moth) of a 1-2 and even a 2.5% emulsion of DDT for the late varieties, there were obtained undamaged fruit correspondingly 77.2 and 89%, for 55.3 and 18.4% in the control. Emulsion of DDT higher than 1% produced burning of leaves on the summer varieties. Two-time dusting of 5.5% DDT and "vofatox" was effective against the first generation of the moth. The crop of undamaged fruits for summer varieties was 92.5%; 55.3% in the control. One-time treating against the 2d generation was insufficient. The crop of undamaged fruits of the winter varieties was 68.8%, and 18.4% in the control. Two- and three-time spraying of a 1% emulsion of thiophos gave no positive results. -- V. G. Gubina.

Card 2/2

n property

8,117. LITVINOV,

133-1-17/24

Golikov, I.N., Candidate of Technical Sciences, and AUTHORS:

Litvinov, B.M., Engineer.

Weldability of Flakes in Alloy Steels During Rolling TITLE:

(Zavarivayemost' flokenov v legirovannoy stali pri

prokatke)

Stal', 1958, No.1, pp. 67 - 70 (USSR). PERIODICAL:

In order to prevent the formation of flakes, merchant ABSTRACT: blooms of structural and tool steels are usually either slowcooled (during a few days in unfired soaking pits) or submitted to a prolonged thermal treatment. If, on the other hand, blooms are further rolled on the same works, their cooling may be simplified as the flakes formed can be welded in subsequent This investigation was carried out in order to determine the minimum degree of deformation necessary for the welding of flakes in structural steels. The experimental procedure was as follows: experimental ingots were charged hot into soaking pits, heated in the usual way and rolled on a mill 950 into semis of a cross-section 190-220. From these, one bloom was cut out from the top part of the ingot and without additional heating rolled on a mill 750 to square semis of 125 - 140 mm wide and 3 - 3.5 m long, which were then cooled

in air, 20 - 30 days after rolling, a few longitudinal and

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Weldability of Flakes in Alloy Steels During Rolling

transverse plates were cut out from each of the experimental semis. The following steels were tested: 38XMWA, 30X2H2A, XHM3, 40XHMA, 45XHM(A, 60X2M, 60XHM and 30XTCHA (flakes were absent in these steels), 50X(A, 45X12M, 60C2, 30XTCHA, 37XH3A (possessed longitudinal flakes), UX15, 9XC and 30XTCHA (possessed transverse and longitudinal flakes, Fig.1). The influence of cooling semis with water on the orientation of flakes was also checked. In two semis of steels 30XCA and 4xB2C cooled after rolling with water, flakes were not found; in steel 40XH, longitudinal flakes were found and in steel UX15 and 60 XHM - both longitudinal and transverse flakes were Transverse flakes were also obtained artificially, stressing rolled warm semis, as shown in Fig. 2. In order to investigate the conditions under which flakes are welded, the above semis were cut into 2-3 parts and after heating by an above semis were cut into 2-3 parts and after heating by an appropriate method for a given steel practice, rolled on mills 750 and 400 with rolls with chomboidal passes into bars 83×83 and 60×60 mm (some into bars 120×120 , 112×112 and 105 x 105) which were then slowly cooled and thermally treated in order to prevent the formation of new flakes. A large number of longitudinal and transverse macro-sections were Card2/3 prepared and examined. Examples of sections with open flakes

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Weldability of Flakes in Alloy Steels During Rolling

are shown in Figs. 4, 5 and 6. Conclusions: 1) Longitudinal flakes and longitudinal sectors of flakes are welded under a small deformation (coefficient of elongation 2-3). 2) Transverse stakes and transverse sectors of flakes open during rolling forming cavities. With further deformation of metal these cavities elongate and close. 3) Transverse flakes of up to 25 mm in size in square semis of the size, 125 - 140 mm weld on rolling into a bar, 40 x 40 mm, thus, the minimum coefficient of elongation necessary to weld such flakes is 10-12. K.N. Petukhova participated in the work. There are 6 figures and 6 Russian references.

Metallurgical Works (Zlatoustovskiy ASSOCIATION: Zlatoust.

metallurgicheskiy zavod)

Library of Congress AVAILABLE:

Card 3/3

SOV/133-59-2-14/26

AUTHORS:

Gololchov, D.I.,

Litvinov, B.M.

TITIE:

Oxy-Acetylene Scarfing of Stainless and Heat Resistant

Steels (Ognevaya zachistka nerzhaveyushchikh i

zharoprochnykh staley)

PERIODICAL: Stal', 1959, Nr 2, pp 145-147 (USSR)

ABSTRACT:

The possibility of scarfing of various steels with increased content of chromium and silicon was investigated. Stainless and heat resistant steels can be divided into two groups: steels in which structural transformations are taking place on heating and cooling (e.g. 1Kh13-4Kh13, Kh9C2) and practically single phase steels (e.g. 1Kh18N9T, Kh28). There were some fears as to the possibility of formation of cracks in steels of the first group, however, it was found that cracks were not formed. These results were confirmed by subsequent results of scarfing of a large quantity of metal. When aluminium-magnesium powder is used with oxy-acetylene flame the surface of blooms of high chromium steels is covered with a layer of slag which

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for checking on the quality of dressing is removed by a

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Oxy-Acetylene Scarfing of Stainless and Heat Resistant Steels

special scraper. At present not less than one bloom per heat is cleaned with an abrasive wheel to check on the quality of scarfing. Scarfing of ingots was also tested. For this purpose half of the ingots from 3 heats were scarfed while the remaining half was mechanically dressed. It was found that the quality of the metal in rolled products from scarfed ingots and blooms was not in any way inferior to that from mechanically dressed ingots. In order to study the influence of scarfing on the structure of high chromium steels specimens cut from scarfed blcoms of 1Kh13, 3Kh13, Kh9C2, Kh12M, Kh18, 1Kh18N9T, Kh18N25C2, 4Kh14N14V2M and Kh23N18 steels were submitted to microanalysis. It was found that cast and hardened structures are formed in the surface layers as well as some decarburisation. An increase in the grain size and annealing of hardened layer to a depth of 1 - 1.2 mm takes place. However, as blooms are reheated and rolled into various products with a considerable deformation, the surface zone becomes so thin that changes in the surface layer of the blooms caused by scarfing can be neglected. As on scarfing with aluminium magnesium powder, a lot of

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Oxy-Acetylene Scarfing of Stainless and Heat Resistant Steels

smoke and polluting gases are evolved. A special camera with an exhaust system was designed (shown in fig.). At present practically all blooms of high chromium steel are dressed by scarfing. There is I figure and 2 references, both of which are Soviet.

ASSOCIATION: Zlatoustovskiy Metallurgicheskiy Zavod (Zlatoust Metallurgical Works)

Card 3/3

PINSKIY, A.Ye. [Pins'kyi, O.IU.]; LITVINOV, B.V. [Lytvynov, B.V.]

Use of synthetic fibers in condenser spinning. Leh. prcm. no.1:
10-13 Ja-Mr '65.

(MIRA 18:4)

CIA-RDP86-00513R000930220004-1

LITVINOV, D. A. 20. M. A. The Welding of Pressure Vessels made from Sheet Aluminium Alloy AMTs D. A. Lityingy and D. A. Kochergin (Avtog. Delo, 1949, (3), 6-8). (In Russian). L. and K. carried out an extensive investigation of welding articles from the aluminium alloy AMTs of thickness 18-25 mm. and obtained the necessary data for fabricating welded thick-walled pressure wassels. Tables are given of the mechanical properties of the welded metal, showing Temples are given of the mechanical properties of the welder metal, showing comparisons between gas-and arc-welding, between two different types of welding-rod material (AK and AMTs), and also between the longitudinal and welding-rod material (AK and AMTs), and also between the longitudinal and transverse properties of the weld seam. X-ray and hydraulic testing of the vessels after welding showed the results being entirely satisfactory.-W.J.K.

USHAKOV, Pavel Nikolayevich; LYSYAKOV, Anatoliy Grigor'yevich;;
LITVINOV, D.A., kand.tekhn.nauk,retsenzent; TSYGANOV, M.A.,
inzh., retsenzent; OKOROKOV, A.A., inzh., red.; SMIRHCVA,
G.V., tekhn. red.

[Safety regulations in designing and operating hoisting cranes]
Tekhnika bezopasnosti pri ustroistve i ekspluatatsii gruzopod"emnykh kranov. Moskva, Mashgiz, 1962. 217 p. (MIRA 15:9)
(Cranes, derricks, etc.—Safety regulations)

MOROZOV, M.P., red.; GUTOROV, V.G., red.; GRINBOYM, S.M., red.; ZHILYAYEV, A.V., red.; KONDRASHOV, A.M., red.; LITVINOV, D.A., red.; TATARENKO, V.A., red.; VOLKOV, V.A., red.; 12d-va; MINSKER, L.I., tekhn. red.

[Regulations for the manufacture and safe operation of highpressure vessels; mandatory for all ministries and departments] Pravila ustroistva i bezopasnoi ekspluatatsii sosudov, rabotaiushchikh pod davleniem; obiazatel ny dlia vsekh ministerstv i vedomstv. Izd.4. Moskva, Gosgortekhizdat, 1961. 79 p. (MIRA 15:10)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru. (Presure vessels)

ZAKOPAYLO, V. D., LITVINOV, D. I. ENG.

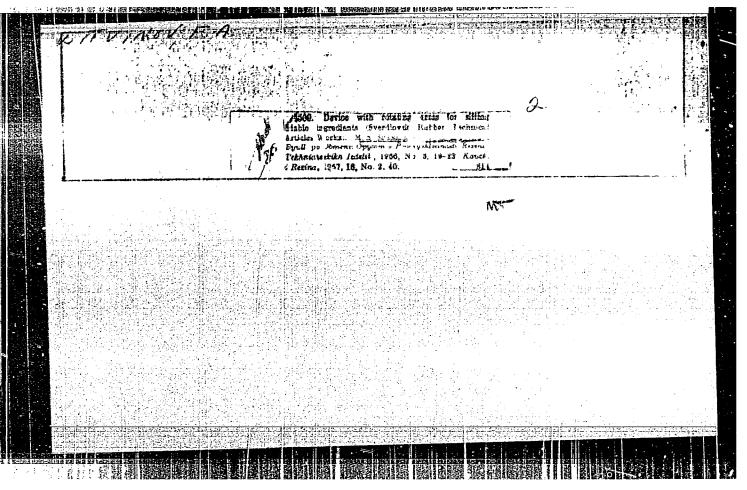
MARKING DEVICES

Machine for marking standard shapes and other profiles. Vest. mash. 32 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953, Uncl.

SOURCE COIE: UR/0/13/66/000/012/0060/0060 ACC NR: AP6021795 (N) INVENTORS: Demenitskaya, R. M.; Trubyatchinskiy, N. N.; Litvinov, E. M.; Gorodnitskiy, A. M. ORG: none TITLE: A mothod for geophysical investigation of ocean water. Class 21, No. 182802 Zannounced by Scientific Research Institute of Arctic Geology (Nauchnoissledovatel'skiy institut geologii Arktiki) 7 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 60 TOPIC TAGS: geophysic instrument, oceanographic equipment, oceanography, sea water, electric field, salinometer, temperature measurement, automatic control ABSTRACT: This Author Certificate presents a method for investigating ocean water. For the sake of automation, increasing the accuracy of measurements, and lowering the cost of the process, the measuring of the temperature and of the salinity (according to the specific resistance and to the natural electric field) is accomplished by deep sounding of ocean water with a continuous recording of the measured parameters by automatic geophysical logging equipment. SUB CODE: 08, 13/ SUBM DATE: 13Apr64 UDC: 551.465.62

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000930220004-1



LITUINOV, F.P.

86-9-6/36

AUTHOR:

Litvinov, F.P. Guards Col., Hero of the Soviet Union

TITLE:

Problem of Education of Trainees During Flight Training Course (Vospitaniye kursantov v protsesse letnogo obucheniya)

PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 9, pp.18-24 (USSR)

ABSTRACT:

The author stresses the great importance for the flight training instructor of thorough study of personal characteristics of his students. Even before the first personal contact is established, the instructor must be acquainted with such personal details of his students as: state of health and physical fitness, disciplined behaviour, political skill and the age. For the first personal contact with his student, the instructor must be thoroughly prepared, because this contact will have important influence in the process of training and in the attitude of students toward the instructor. The instructor must avoid cheap popularity and also exaggerated severity; however, he should not tolerate even small irregularities. The first meeting with the students should be organized according to a plan prepared beforehand and should supply the instructor with the most essential information about his training group.

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Programment accelerate established in a management of a management of the second

86-9-6/36
Problem of Education of Trainees During Flight Training Course (Cont.)

This will help the instructor in further selection of the most able and disciplined students who will form his "active training group". According to the author, the instructor may win the confidence of the student if he is at the same time exacting and modest, well pondered and observant and constantly exigent to himself. It would be wrong if the instructor were to rely too much on the data of the students which may be supplied by aeroclubs and organizations where the students previously had undergone their flying education. Also it would be wrong to form an opinion about the student's flying ability only on the basis of his first flights. The author stated that on the basis of thorough checking of some students' flying capacities it was revealed that the flight documents and characteristics sent from aeroclubs appeared to be inaccurate. The instructor should avoid making hasty conclusions about the flying ability of the students. order to form a proper opinion, it would be necessary to complete with the students 5-10 circular flights and 1-2 flights in the piloting zone, in accordance with the program of training flights with the instructor. But even that may be insufficient and the instructor should request

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86-9-6/36 Problem of Education of Trainees During Flight Training Course (Cont.)

his superior for a special checking on the basis of which he may determine further methods of individual training. In order to inculcate the high moral and combat qualities in the students, the instructor should constantly perfect the methods of training and education and check the achieved results. His approach to the student should be based on good psychological analysis of the student's character while in the air, as well as during the training on the ground and in off duty friendly conversations. The education and training of each student should be treated individually, according to his ability and character. A skillful instructor should from the first flight, inculcate in the students the habit of analyzing their errors and reactions during the flight. It is important to know whether the student while in the air has the feeling of satisfaction or of fear. On this fact may depend the course of his further education. Flight into the piloting zone, which should be observed by the instructor very carefully, may supply much useful data about the student behavior, while in the air. For instance, the behaviour of a student in a spin or steeply banked turn

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Problem of Education of Trainees During Flight Training Course (Cont.)

may indicate to the instructor the attitude of the student toward the flight. In case of lack of self-control or necessary attention, the instructor must adopt appropriate methods of further individual training. The author points out that insufficient physical fitness of students in many cases was the cause of irregularities in flight. This factor should be taken into consideration by the instructor in order to know the degree of endurance of student during strenuous flight. In the program of the flight training course is determined the minimum of "G" for each flying day of student. However, the instructor knowing the capacity of his students should order such number of flights which will give the best results in training and at the same time will not jeopardize the safety of flying. Physical fitness of the instructor plays an important role in training, because by his own experience he will know what kind of physical exercise will be most effective for developing of flying endurance among the students. The author cited an example of effective sport training which in a comparatively short time improved the students' skill in handling of the airplane controls. Also asserting the necessity of individualizing the program, the author

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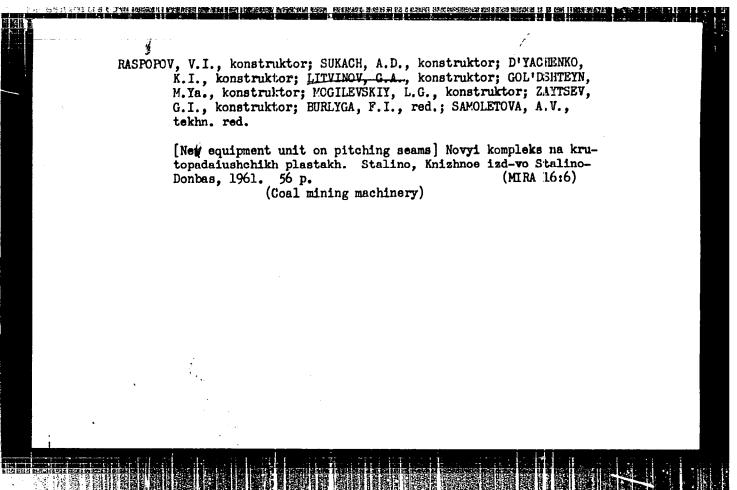
SUKACH, A.D., inzh.; RASPOPOV, V.I., inzh.; LITVIHOV, G.A., inzh.

UKR1 cutter-loader unit. Ugol' Ukr. 4 no. 11:32-34 M '60.

(MIRA 13:12)

1. Dongiprouglemash.

(Donets Basin--Coal mining machinery)



BRODSKIY, Vladimir Isakovich; LITVINOV, Gleb Andrewevich; BRONSHTEYN, L. A. redaktor; HAL'KOYA, N.V., tekhnicheskiy redaktor

[Work organization of a motor transport system; the practice of the No.1 Riga Motor Transport Office of the Ministry of Automotive Transportation and Highways of the Latvian SSR] organizatsiia raboty avtotransportnogo khoziaistva; Opyt Rizhskoi avtotransportnoi kontory no.1. Ministerstva avtomobil nogo transporta i shosseinykh dorog Latviiskoi SSR, Isd.2-e. Moskva, Nauchno-tekhn. isd-vo avtotransportnoi lit-ry, 1955. 67 p. (MLRA 8:8) (Riga-Transportation, Automotive)

2 42 名,是第500 对 1975 [1986] [1986] [1987] [1986] [1

LITVINOV, G. A.

5791. Organizatsiya roboty no avtomobil'nom transporte. Opyt avtotransp. kontory Nall. M-Va avtomob transporta i shosseynykh dorog latv. SSR. Riga, Latjosizdat, 1954. 116s. s III, 21 form, 22sm. 5.000 ekz. 2 r 65k (55-1011) p 656.13:658.5

SO: Knizhnaya, Letopis, Vol. 1, 1955

9.3140 SOV/109-5-1-16/20 Babkin, N. I., Litvinov, G. D. AUTHORS: TITLE: Installation for Continuous Observation of the Angle of Rotation of the Polarization Plane by Ferrite, as Function of the Magnetizing Current and on Frequency of SHF Oscillations. Brief Communication PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 1, pp 169-170 (USSR) ABSTRACT: During the development of ferrite devices it is often necessary to determine the relation of the angle of rotation of the polarization plane with respect to the magnetization current (I) or to the SHF frequency. $\alpha = \psi_1(l), \quad \alpha = \psi_2(f).$ (1) . Card 1/6

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Installation for Continuous Observation of the Angle of Rotation of the Polarization Plane by Ferrite, as Function of the Magnetizing Current and on Frequency of SHF Oscillations. Brief Communication

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The determination of these characteristics is done pointby-point and requires considerable time; therefore, the scheme as shown on Fig. 1 is used for a continuous measurement of these characteristics. The signal from the SHF oscillator enters through the intermediate components of the set into the auxiliary ferrite device (7) with the full magnetic field, and after being subjected to the influence of the coil current having a frequency Ω = 400 cps, the polarization plane of the cutput wave TE1.1 fluctuates within a certain angle. The SHF signal further passes through the other components and from the wave transformer $\overline{\text{TE}}_{1,1}$ - $\overline{\text{TE}}_{1,0}$ at the end of the rotary transition (9) enters the detector head (11). Since the polarization plane oscillates the whole time with frequency Ω , at the output of the detector appear variable components of the signal with frequencies $\hat{\Omega}$ and $2\hat{\Omega}$ Figure 2 shows the oscillations. The signal with

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Installation for Continuous Observation of the Angle of Rotation of the Polarization Plane by Ferrite, as Function of the Magnetizing Current and on Frequency of SHF Oscillations. Brief Communication

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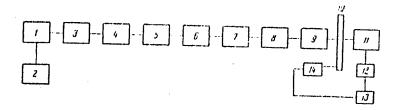


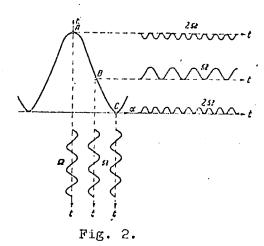
Fig. 1. (1) h-f Generator; (2) power supply; (3) ferrite decoupler; (4) alternating attenuator; (5) ferrite decoupler; (6) wave transformer TE₁, 0 - TE₁, 1; (7) auxiliary ferrite device; (8) element to be tested; (9) rotary transition; (10) limb with degree scale; (11) detector section; (12) type 28-I voltage amplifier; (13) power amplifier; (14) asynchronous motor.

Card 3/6

表。1915年15日,1918年15日 1918年15日 1918年15日

Installation for Continuous Observation of the Angle of Rotation of the Polarization Plane by Ferrite, as Function of the Magnetizing Current and on Frequency of SHF Oscillations. Brief Communication

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frequency Ω is used for the tracking system, consisting of components 12, 13, 14 and reducer, which rotates (10,11). The system will be in equilibrium when the output signal with frequency Ω is zero. Whether this will correspond to point A or C on Fig. 2 depends on the phase of the feeding voltage on one of the motor windings. If the polarization plane of the wave shifts under the influence of change in signal frequency of the magnetization current of the ferrite device being tested, an error signal with frequency $\hat{\Omega}$ will appear (point B on Fig. 2), and the motor will turn the detector section to the new equilibrium location. A klystron of type K-29 is used as oscillator. The operating range is approximately 10%, and the frequency change

is made by turning a handle which completes the retuning of the klystron resonator and simultaneously establishes the optimum voltage on the reflex-electrode. The oscilla-

tor is equipped with a scale for approximate readings of

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Installation for Continuous Observation of the Angle of Rotation of the Polarization Plane by Ferrite, as Function of the Magnetizing Current and on Frequency of SHF Oscillations. Brief Communication

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frequencies. The results of experiments conducted with this installation are as follows: (1) Time of determining the above characteristics is of the order of 1 min. (2) and determining angles by previous methods is 30. (3) the installation works for a variation of the power of the SHF oscillator up to 3-4 times. (4) The installation is simple and consists basically of the same components which are used for the previous method of determining the characteristics by points

SUBMITTED:

August 17, 1959

Card 6/6

1,2468

\$/785/61/000/010/002/002

AUTHORS: Litvinov, G.I., Svarchevskiy, V.N., Yaryshev, B.P.

TITLE:

The use of photorecorders with visible trace for the registration of geophysical and meteorological quantities.

USSR. Ministerstvo geologii i okhrany nedr. Osoboye knostruktorskoye SOURCE:

byuro. Geofizicheskoye priborostroyeniye. no. 10. Leningrad, 1961, 45-49.

The paper describes a recorder which combines the inertialess and TEXT: multichannel capabilities of the magnetoelectric oscillograph with the continuously observable record of a pen-type recorder. The OPB-1 (FRV-1) recorder, developed by the Osoboye konstruktorskoye byuro (Special Design Bureau) of the Ministry of Geology and Mineral-Resources Conservation, USSR, employs a "daylight" photographic paper which is fairly insensitive to ordinary visible light, but highly sensitive to the UV light produced by a standard Hg-vapor APM-100 (DRSh-100) lamp; the 26-v d.c. power consumed is 100-130 w. The recorder has 6 galvanometers with a common magnet. All traces can be viewed directly on a screen at a displacement speed of up to 3 m/sec. Upon the secondary exposure of the 200-mm wide paper to the light of an incandescent lamp, which occurs during its passage under the visualobservation window, the recording becomes sufficiently distinct. Further exposure to scattered daylight does not affect the paper, and its shelf-life is incefinite. Flight and field tests were performed to investigate the suitability of the equipment for Card 1/2

The use of photorecorders with visible trace...

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geophysical and meteorological recordings. The FRV-1 photorecorder was installed on a spring support on one of the desks of a "flying-lab" aircraft. The air temperature and humidity and the aircraft g-loads were recorded via sensor-controlled bridge circuits fed from storage batteries. All recordings were backed up by a standard K4-51 oscillograph. The photorecorder operated well with circuits having a resistance of tens to thousands of ohm. The high proper frequency of the FRV-1 galvanometers rendered the recordings practically inertialess. The aircraft vibrations did not produce any appreciable improvement of the records. Close balancing of the galvanometer mechanism and the spring support of the recorder minimized any unfavorable effect of the vibrations. The field tests were performed at the Mirgorod base of the "Ukrneftegeofizika" trust. The FRV-1 recorder was attached to the various sensors during well-logging operations, and all recordings were repeated by a NACK(PASK) selfrecorder and a (latent-image) OF-5 (FR-5) photorecorder. The FRV-1 was found to be fully dependable; the simplicity of the device permits registration of 6 curves, zero lines, and depth and time ticks, all with a single light source, and requires minimal tuning and makeready time, even in the hands of an average operator; the elimination of post-recording darkroom time increases the productivity of the equipment. The traces have sufficient contrast to yield good contact prints when exposed through a yellow light filter. There are 1 figure and 2 Soviet (only) references.

ASSOCIATION: None given.

Card 2/2

LITVIMOV, G.I.; SVARCHEVSKIY, V.N.; YARYSHEV, B.P.

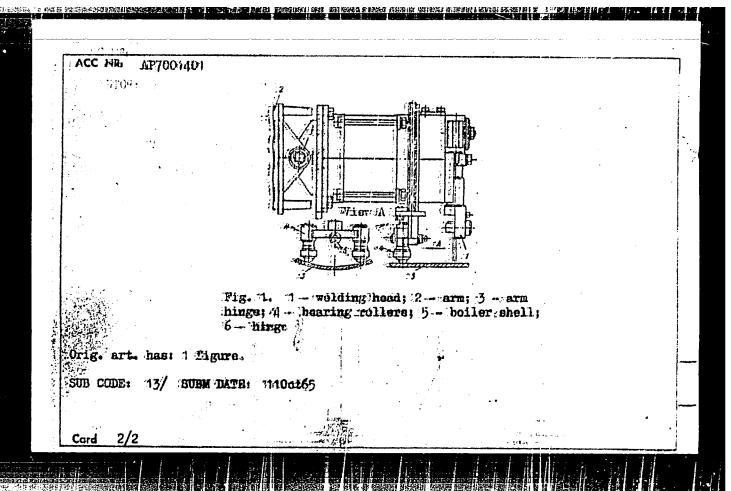
Use of photographic recorders with a visible graph for recording geophysical and meteorological values. Geofiz. prib., no.10:
(MIRA 15:8)

(Geophysical instruments)

ACC NO. AP7001401 (LAI) SOURCE CODE UR/0413/56/000/021/0077/5017 INVENTORS: Alekseyenko, A. W.; Berlin, V. M.; Krasov, P. A.; Litymov, C. I.; Shelkov, V. V.; Oparin, W. L.; Remesnikov, A. L.; Stepanov, S. N. ORG: none TITLE: An assembly for weaking internal joints of boiler shells. Class 21, No. 187906 Jamounoed by All-Union Scientific Research and Design Engineering Institute of Chemical and Petroleum apperentus Construction (Vacsoyuznyy nauchno-isoledovatel div i projektny čnetitut tekhnologii ilhimidheskogo i neftyanogo apparatostroyeniya)/ SOURCE: Izebreteniya, prograhlenzwe obnaztsy, tovernyye znaki, no. 21, 1966, 77 TOPIC TEGS: welding, welding equipment, welding technology, seam welding ABSTRACT: This Author Certailiteate presents an assembly for welding internal joints of boiler shells. The assembly consists of a column with a frame mounted upon it. The framecarries an arm with a welding head placed on supporting rollers. To maintain a constant position of the electrode on respect to the sean surface, the welding head and arm are connected to one mother by a hinge and a spring (see Fig. 4). The latter assures a constant contant thetween the rollers and the bailer shell. The welding head is hinged to the bearing millions which are rigidly connected to one another. Cord 1/2

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TODG: (621.791.037-477



KOROTEYEV, I.M., kandidat tekhnicheskikh nauk, dotsent: LITVINOV, G.T., kandidat tekhnicheskikh muk, dotsent.

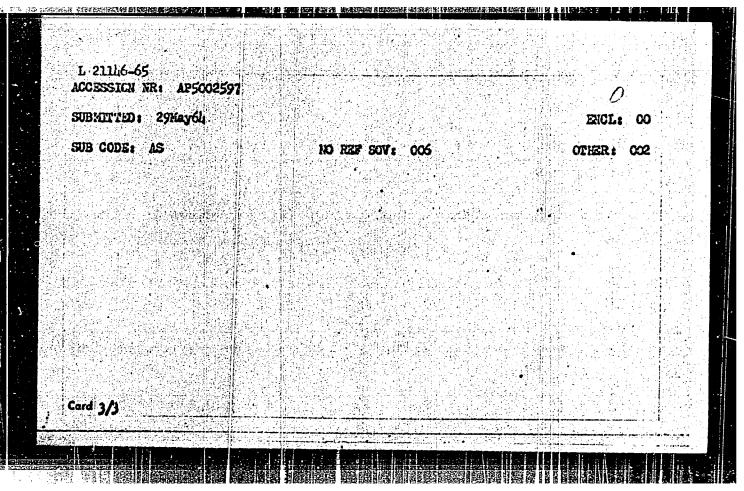
Kinematik analysis of automatic couplers in operation. Trudy DIIT no.25:219-233 '56. (HERA 10:1)

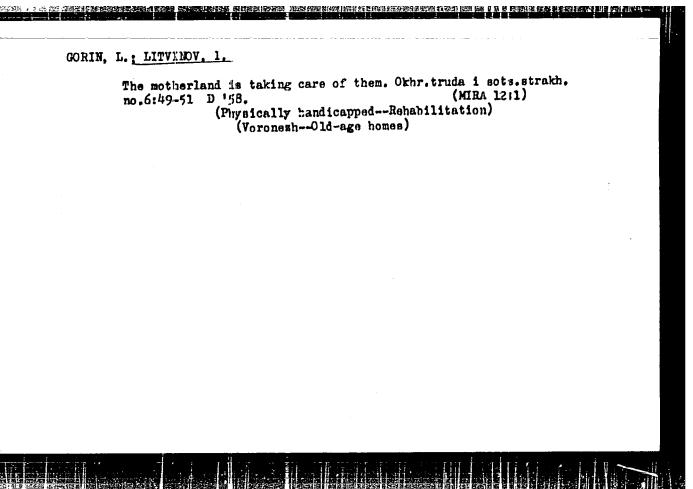
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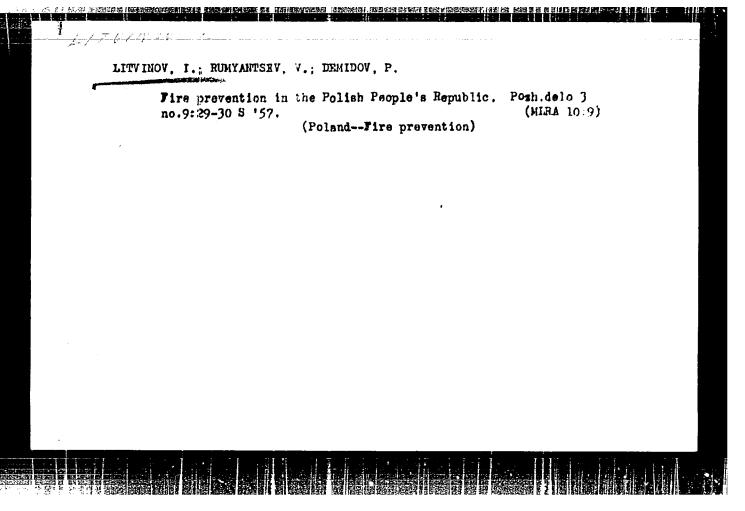
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	The author student of the student of	· 0 115	$\begin{pmatrix} a^4 = \frac{1}{\rho} \frac{da}{dt} & . \end{pmatrix}$	$=\int a(e)de, \frac{\xi}{\eta}$	$=\frac{1/s(v-u)}{=1/s(v+u)}$		
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SCV/13U-58-7-32/35

TITLE:

They Have Become Metallurgists (Oni stali metallurgami)

and the control of th

Metallurg, 1958, Nr.7, p 44 (USSR). PERIODICAL:

The author gives brief sketches of some new workers at ABSTRACT:

the Voroshilov Metallurgical Works: Yevgeniy Kosyak, Anatoliy Khristyuk and Vitaliy Rozhkov at the blast-furnace plant; Leonid Yanulis, Nikolay Bykov and Aleksandr Mal'ko in the melt-

ing shop; Vladimir Lobachev and Konstantin Yevsyukov in the

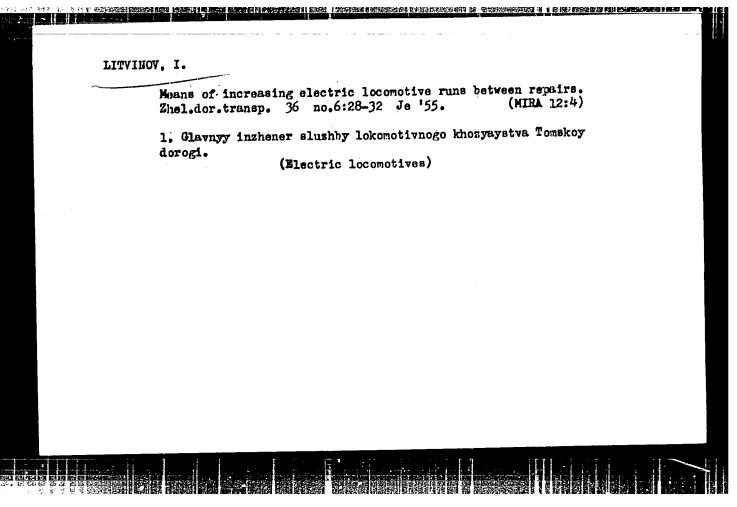
sheet mills; Maya Konvisar in the cogging mill.

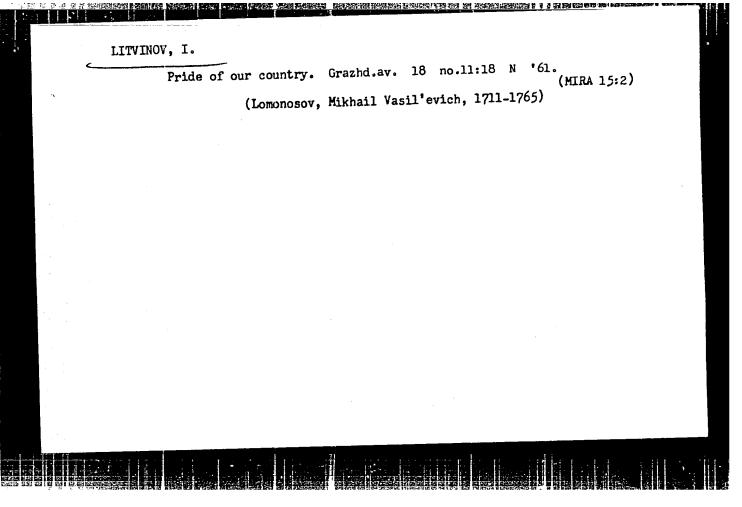
There is 1 illustration.

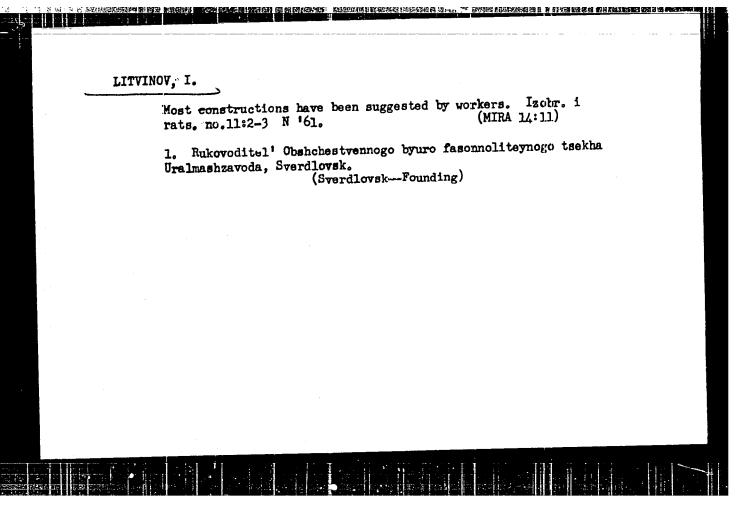
Zavod imeni Voroshilova (imeni voroshilov Works) ASSOCIATION:

Card 1/1

1. Labor--USSR 2. Metals--Production 3. Metallurgy--USSR



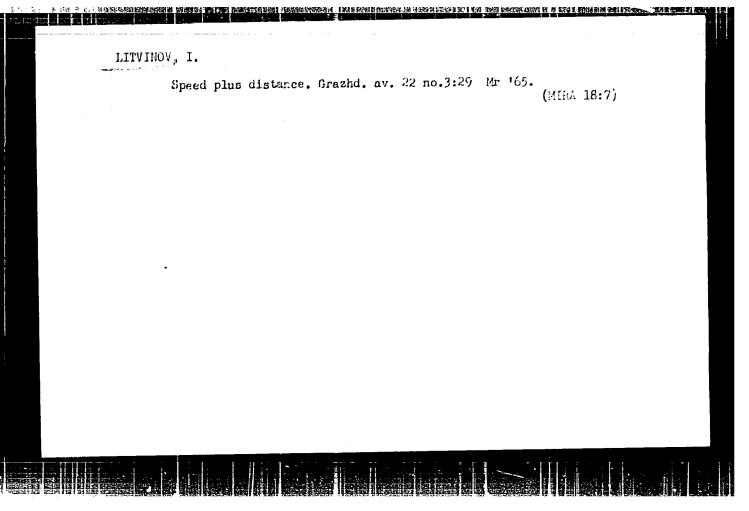




LITVINOV, I.

Mechanized swine-fattening barn. Sel'.stroi. 15 no.4:10-12 Ap '60. (MIRA 16:1)

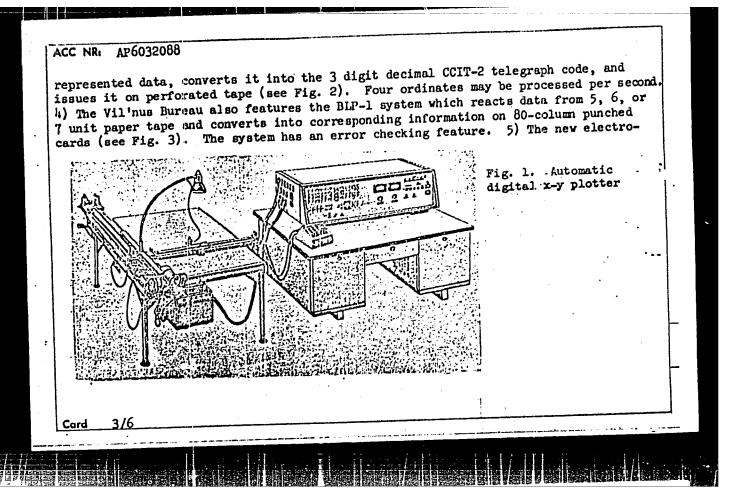
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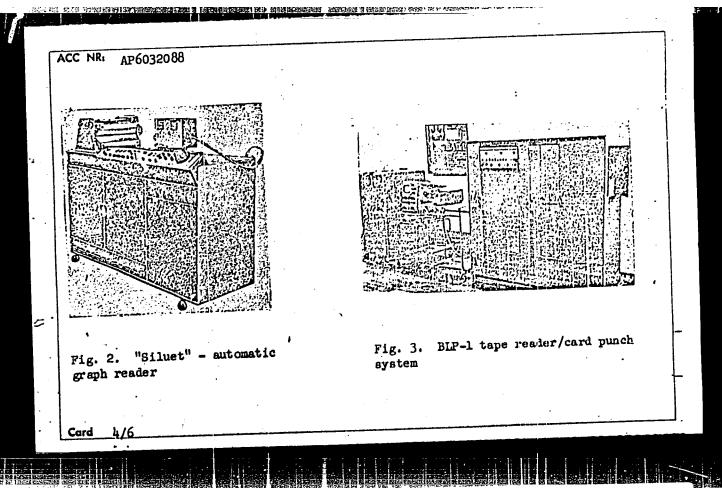


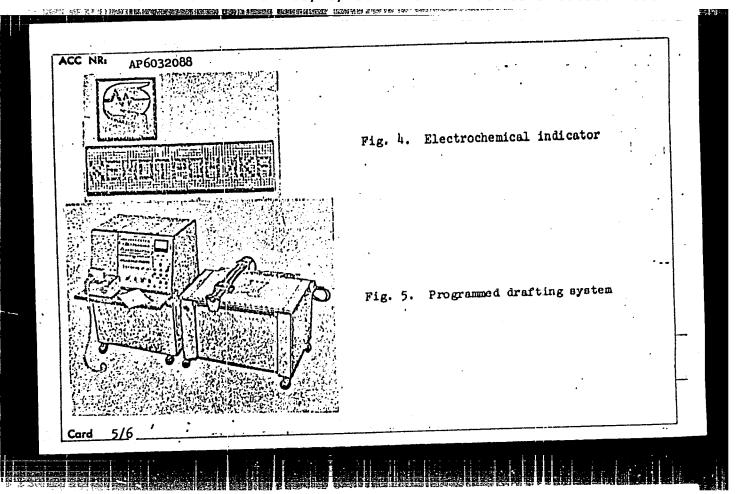
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BOURCE CODE: UR/0317/66/000/009/0068/0073 ACC NRI AP6032088 AUTHOR: Koryshev, B. (Director of "computer technology" pavilion); Litvinov, I. (Chief engineer of "computer technology" pavilion) ORG: Computer Nechnology Pavilion, VDNKh SSSR (Pavil'on "Vychislitel'naya tekhnika" VDNKh SSSR) TITLE: Electronic computer technology 1/2(/ SOURCE: Tekhnika i vooruzheniye, no. 9, 1966, 68-73 TOPIC TAGS: computer technology, computer application, computer design, electronic computer, memory core, magnetic tape ABSTRACT: The author describes new Soviet computer hardware. He notes that the new transistorized series of general-purpose "Ural" computers is capable of performing one million operations per second. Another completely transistorized computer "Minsk-22" operates with a speed of five to six thousand operations/sec. Its internal core storage capacity is 8192 words. It also has a 1.6 million word external magnetic tape memory and a number of I/O units (see table). The alphanumeric printing mechanism has 128 character positions per line. Any one of 64 different characters may be printed in any one position. Power consumption is 10 kw. Other specialpurpose computers and I/O systems are described: 1) The small-size "Mir" computer developed at the Institute of Cybernetics AN SSSR is intended for solution of scientific and engineering problems. No special programming capability is required to operate this machine. The input unit (an electric typewriter) accepts instructions

	1/0	Input speed	Output speed	
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—7 charact number repre- vord core me lesigned at le capable (Cormat. The output is a sers/sec. The computer esentation; its speed is emory. Its power consum the Riga Central Design of plotting 1100 points/ne plotter accepts input tape, or directly from a	200—300 op./sec. ption is 1 kw. 2) and Planning Bureau hr on the board 1.1 from a keyboard (se	The computer has a The digital x-y pl of Mechanics and m long and 0.8 m were the unit, punc	12-bit 4096 otter Automation ide (see hed cards, veloped at







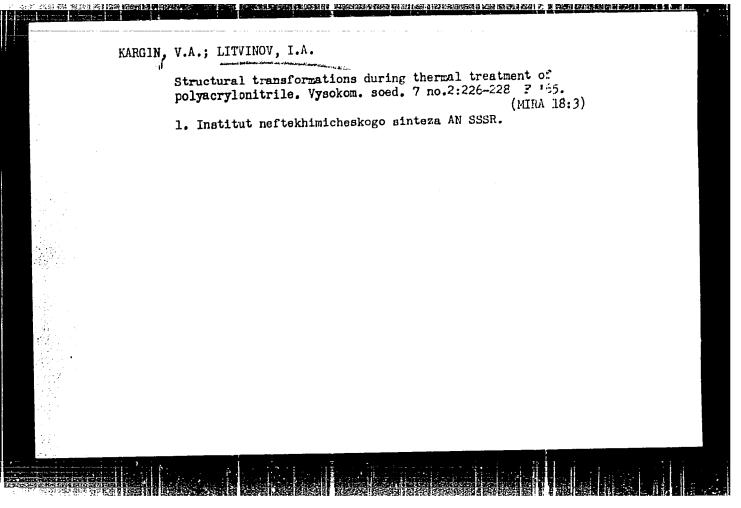
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KARGIN, V.A.; LITVINOV, I.A.

Processes of structure formation of polyacrylonitrile from solutions. Vysokom. soed. 6 no.7:1193-1194 J1 '64 (MIRA 18:2)

1. Institut neftekhimicheskogo sinteza imeni Tomchiyeva AN SSSR.



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25272

5/190/61/003/007/016/021 B101/B226

AUTHORS:

Kargin, V. V., Plate, N. A., Litvinov, I. A., Shibayev,

V. P., Lur'ye, Ye. G.

TITLE:

Processes of polymerization and grafting on newly formed

surfaces of inorganic substances

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 7, 1961,

1091 - 1099

TEXT: In previous papers (Vysokomolek. soyed., 1, 339, 1959; ibid., 1, 1713, 1959), the authors had shown that polymerization of viryl monomers can be initiated by an intensive mechanical dispersion of solid inorgania substances. The present paper studies this effect when dispersing metals, metal oxides, and ionic salts. Because in the hitherto used vibration mill grindings of iron balls had a disturbing effect upon the polymerization processes, three new grinding devices have been constructed (1) The monomer, the substance to be dispersed, and glass balls were filled into an ampul being fastened to the vibration mill. (2) The ampuls were fastened to the armature of an electromagnet which was fed Card 1/5

Processes of polymerization ... 25272

S/190/61/003/007/016/021 B101/B226

by a. c. (3) The ampuls were fastened to the coil of an electromagnetic 10-w loudspeaker. The use of vacuum and different temperatures was made possible by working with ampuls. Frequency was varied between 50 and 120 cps, the amplitude being 2-5 mm. Duration of dispersion amounted to 30-90 min. (A) Polymerization by means of Al₂O₂ (corundum, energy of crystal lattice 3610 kbal/mole) or $\rm Cr_2O_3$ ($\rm E_{Cr_2O_3}$ 4668 kcal/mole) was

studied with styrene, methyl methacrylate, acrylonitrile, vinyl acetate, and some organic substances of the acetaldehyde type. Intensive dispersion of these exides in the presence of styrene or methyl methacrylate led to rapid polymerization. In the case of methyl methacrylate, a polymer having a molecular weight of 25,000 was obtained. Vinyl acetate was not polymerizable. When dispersing corundum, acetaldehyde yielded, after 2 hr, 3 - 5% polyacetaldehyde. Also in this case, the results were not different from those obtained by J. Furukawa et al. (see below) by means of Al₂O₃ annealed at 600°C. Dispersion of corundum in acetone under exclusion of air resulted, at room temperature, in small

quantities of mesityl oxide and phorone. No high yields could be obtained, since the resultant H₂O is adsorbed on the surfaces of Al₂O₃

Processes of polymerization ... 25272 S/190/61/003/007/016/021

and the active centers are blocked. (B) Polymerization in the presence of Fe, Al, and Mg easily succeeded in acrylonitrile and methyl methacrylate between - 30 and + 50° C. The results did not differ from the data obtained earlier for styrene - 510_{2} and styrene - NaCl. Considering the polymerization mechanism of acrylonitrile, assumption is made that in the metal surface electrons are excited, which, at low work function (WFe = 4.31 eV, WAl = 4.2 eV, WMg = 2.74 eV) pass over to the monomer adsorbed on the metal surface, and release the reaction according to the following scheme:

CH,=CH+7 CH,-CH

A denotes the possibility of chain growth according to anionic mechanism, P according to radical mechanism. Besides, in the presence of Fe, complex formation of Fe with nitrile groups and formation of cyclic groups is assumed for acrylonitrile. Furthermore, account has to be taken of that the metals are covered by an exide film. On the exide film, a grafting of the resulting polymer could appear, and separation of the Me-O bonds during Card 3/5

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Processes of polymerization ... 25272 S/190/61/003/007/016/021

dispersion also could have an initiating effect. In the system Mg-methyl methacrylate, a highly swelling polymer was obtained, a metal-polymer gel, the lattice points of which consist of metal particles being bound to the polymethyl methacrylate by means of Me-O-C bonds. When treating these polymers with HCl, the molecular weight decreased (from 74,000 to 30,000 in the system with Al; from 250,000 to 160,000 in the system with Mg). Therefrom, conclusion is drawn that a hydrolysis of Me-O-C bonds had taken place. Attempts to polymerize styrene or methyl methacrylate by dispersing metallic Cr or W were unsuccessful. The too high work function of these metals is considered to be the cause of this fact. The capability of initiating polymerization thus does not depend on the absolute strength of interatomic bonds in the crystal, but on the capability of forming active centers of the electron donor- or radical type. (C) Polymerization by dispersion of salts (NaCl, KCl, CaF,) already took place at room temperature in methyl methacrylate, acrylonitrile, styrene, and a-methyl styrene. Assumption is made that also in this case initiation takes place by transferring an electron to the monomer. The electron might be set free by ionization- or crystal defects of the F-center type. Dispersion of TiCl, or BeCl, in the presence of styrene led to its rapid Card 4/5

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Processes of polymerization ... 25272 S/190/61/003/007/016/021 B:01/B226

polymerization, even at - 80°C. These salts had no effect upon methyl methacrylate. In this case, the initiation of the polarizing effect of Ti³⁺ or Be²⁺ is reduced to the double bond of styrene tending toward cationic polymerization. In agreement with the experiment, monomers with electronegative substituents (methyl methacrylate) could not be polymerized. S. D. Levina, K. P. Lobanova, P. Yu. Butyagin, A. A. Berlin, K. S. Minsker and V. K. Bykhovskiy are mentioned. There are 3 figures and 21 references: 10 Soviet-bloc and 11 non-Soviet-bloc. The three most important references to English-language publications read as follows: J. Furukawa, T. Saegusa, T. Tsuruta, H. Fujil, T. Tataho, J. Polymer Sci., 36, 546, 1959; H. Adkins, A. Krause, J. Amer. Chem. Sci., 44, 389, 1922; M. Ueta, W. Känzig, Phys. Rev., 24, 1390, 1954; 27, 1591, 1955.

ASSOCIATION: Meakovskiy goshdarstvennyy universitet im. M. V. Lomonosova (Mossow State University imeni M. V. Lomonosov)

SUBMITTED: November 19, 1960

Card 5/5

ENT(m)/EPF(c)/EPR/ENP(j)/T Pc-4/Pr-4/Ps-4 WILL BIS T. 27190-65 5/0190/65/007/002/0226/0228 ACCESSION NR: AP5005589 AUTHOR: Kargin, V. A.; Litvinov, I. A. TITLE: Structural changes during the heat treatment of polyacrylonitrile SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 2, 1965, 226-228 TOPIC TACS: polyacrylonitrile, pyrolyzed polyacrylonitrile, organic semiconductor, semiconducting polymer, pyrolysis, heat treatment, morphology, chemical structure ABSTRACT: For the first time, structural changes in the course of pyrolysis up to 800C have been followed in a polymer, namely polyacrylonitrile. Pyrolysis was carried out in vacuum for oriented and nonoriented films and fibers of the polymer. Electron microscopy showed that the initial morphology of crystalline polyacrylonit ile can be preserved in pyrolysis. X-ray structural analysis showed that in the pyrolysis of oriented and nonoriented polyacrylonitrile, the initial degree of orientation is preserved while the chemical structure of Card 1./2

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